11/14/2003

Date

Signature

Please type a plus sign (+) ir	iside this box →	1 + 1							F10/36/03 (03-01)		
	CE	RTIFICATE OF N	MAILI	NG O	R TRANS	MISSION	V				
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail (label number EV132466542US) in an envelope addressed to: Mail Stop: New Application, Commissioner For Patents P.O. Box P. 1450, Alexandria VA 22313-1450 on under the provisions of 37 CFR §1.10.											
Mailer's Name (Print/Type)	Lee Ann DiL	ello	Sign	ature	Poul	link	h/ X	Date	11/14/200300		
	JTILITY			44-	<u> </u>	4 1 1 -	TATAL C	0.7	7		
			ŀ	Attorney Docket No.			ATMI-6		9270 10/7		
PATENT APPLICATION				First Inventor Xueping Xu							
TRANSMITTAL				Title VICINAL GALLIUM NITRIDE SUBSTRATE FOR HIGH QUALITY HOMOEPITAXY							
(Only for new non-provisional applications under 37 CFR 1.53(b))											
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.				ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313							
Fee Transmittal For (Submit an original and a	orm (e.g., PTO/	SB/17)		CD-ROM or CD-R in duplicate, large table or							
2. Applicant claims s	mall entity statu	* ·		Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission							
See 37 CFR 1.27. 3. X Specification [Total Pages 34]				(if applicable, all necessary) a. Computer Readable Form (CRF)							
- Descriptive Title			_	b. Specification Sequence Listing on:							
- Cross Reference	to Related App	lications ored R & D		i. CD-ROM or CD-R (2 copies); or							
 Reference to seq 	 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix 				ii. paper						
- Background of the - Brief Summary of	e Invention	portain		c. Statements verifying identity of above copies							
- Brief Description - Detailed Descript	of the Drawings	(if filed)		ACCOMPANYING APPLICATION PARTS							
- Claim(s) - Abstract of the Di				9. Assignment Papers (cover sheet & document(s))							
- Abstract of the bi	sciosure			10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney							
4. X Drawing(s) (35 U.S	S.C. 113) [To	otal Sheets 18] 1	11. English Translation Document (if applicable)							
5. Oath or Declaration [Total Sheets]					12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations						
a. Newly executed (original or copy)				13. Preliminary Amendment							
Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)				14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)							
DELETION OF INVENTOR(S)				15. Certified Copy of Priority Document(s) (if foreign priority is claimed)							
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR				Nonpublication Request under 35 U.S.C. 122							
1.63(d)(2) and 1.33(b).				or its equivalent.							
6. Application Data Sheet. See 37 CFR 1.76				17 Other:							
18 If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:											
Continuation	Divisional	Continuation-in-pa	art (CIP)		of prior app	lication No.:					
Prior application information: For CONTINUATION or DIVISIO	Examiner	The entire disclosure	 of the no	rior ann	Group Art		ath or declar	ation is su	nnlied under Boy 5h		
For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can											
only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS											
Customer Number or Bar Code Label (1997)			-	or Correspondence address below							
Name ADVANCED TECHNOLOGY MATER						J _.					
Address	ADVANCED TECHNOLOGY MATERIALS, INC. 7 Commerce Drive										
City Danbury				State	State CT Zip Code 06810						
			Telepi		(203) 79	4-1100	Fax	1	<u>'</u> 97-2544		
	I		. J.Jpi	7-			<u> </u>	-			
Name (Print/tyne)	William F. R	vann i		رم ا	anietration l	No /Attorno	ov/Agant)	11 212			

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
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FEE TRANSMITTA	Complete if Known								
FEE INANSMITTA	L	Application Number			er				
for FY 2004	:	Filing Date							
Effective 10/01/2003. Patent fees are subject to annual revision	,	First Named Inventor			_{ntor} Xeu	ping	Xu		
	Examiner Name								
Applicant claims small entity status. See 37 CFR 1.27	Art Unit								
TOTAL AMOUNT OF PAYMENT (\$) 1284	Attorney Docket No. A			lo. ATN	ATMI-687				
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)								
Check Credit card Money Other None	3. ADDITIONAL FEES								
Deposit Account:	<u>Large</u> Fee	Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Pescription							
Deposit Account 50-0860	Code				escription	Fee Paid			
Number	1051	130	2051	65	Surcharge -	- late fi			
Account Advanced Technology Mater	1052	50	2052	25	Surcharge - cover sheet		ļ		
Name The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-English	h speci	<u> </u>		
Charge fee(s) indicated below Credit any overpayments		2,520			For filing a r	-			
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting Examiner a		ation of SIR prior to		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting Examiner a		cation of SIR after		
FEE CALCULATION	1251	110	2251	55	Extension (for repl	ly within first month	ļ	
1. BASIC FILING FEE	1252	420	2252	210	Extension (for repl	ly within second month		
Large Entity Small Entity	1253		2253	475	Extension t	for repl	ly within third month	<u> </u>	
Fee Fee Fee Fee Description Fee Paid Code (\$)	1254	1,480	2254	740	Extension t	for repl	ly within fourth month		
1001 770 2001 385 Utility filing fee 770	1255	2,010	2255	1,005	Extension t	for repl	ly within fifth month	 	
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of A	Appeal		<u> </u>	
1003 530 2003 265 Plant filing fee	1402		2402		-		ipport of an appeal		
1004 770 2004 385 Reissue filing fee 1005 160 2005 80 Provisional filing fee	1403	290 1.510	2403 1451		Request for		-		
	1452		2452				e a public use proceeding - unavoidable		
SUBTOTAL (1) (\$) 770		1,330	2453				- unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2501		Utility issue				
Ext <u>ra Claims below</u> Fee Paid	1502	480	2502	240	Design issu	ue fee	•		
Independent 5 200 V 86 172	1503	640	2503	320	Plant issue	issue fee			
Claims 5 - 3 = 2 X CO 1 1 1 2 2 3 4 2 3 4 4 4 4 4 4 4 4 4	1460	130	1460	130	Petitions to	ions to the Commissioner			
Large Entity Small Entity	1807 1806	50	1807		_	essing fee under 37 CFR 1.17(q)			
Fee Fee Fee Fee Description		180	1806				ormation Disclosure Stmt atent assignment per	$\vdash \vdash \vdash \mid \mid$	
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	property (tir	mes nu	imber of properties)		
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a sub (37 CFR 1.		on after final rejection		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	•		al invention to be		
1204 86 2204 43 ** Reissue independent claims					examined ((37 CFI	R 1.129(b))	 	
over original patent 1205 18 2205 9 ** Reissue claims in excess of 20	1801 1802		-		-	lest for Continued Examination (RCE)			
and over original patent	1002	300	1002	900	of a design				
SUBTOTAL (2) (\$) 514		fee (sp							
**or number previously paid, if greater; For Reissues, see above	*Red	uced by	Basic F	iling Fe	e Paid	su	BTOTAL (3) (\$)		
SUBMITTED BY					-	(0	Complete (if applicable))		
Name (Print/Type) William F. Ryann		Registration No. (Attorney/Agent) 44,313 Telephone 203-794-110				elephone 203-794-1100			
Signature		VIIIVIII	140:111	-			Date 11/14/2003		

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.